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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,468	07/24/2003	R. William Arling	1062/C86	1285
2101	7590 03/16/2005		EXAMINER	
BROMBERG & SUNSTEIN LLP			SHRIVER II, JAMES A	
125 SUMMER STREET BOSTON, MA 02110-1618			ART UNIT	PAPER NUMBER
			3618	
			DATE MAILED: 03/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>				
a /	Application No.	Applicant(s)			
Office Action Summers	10/626,468	ARLING ET AL.			
Constitution of the Consti	Examiner	Art Unit			
	J. Allen Shriver	3618			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 14 February 2005. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 10 September 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	are: a)⊠ accepted or b)⊡ objec drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2 and 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurschat (US Patent 5,604,209) in view of Malick (US Patent 3,399,742). Kurschat discloses a method for towing a carrier with a transporter (See Fig. 1), the method comprising coupling the carrier to the transporter with a pivot, the pivot characterized by a pivot axis; propelling the transporter by actuation of a ground-contacting element; wherein the transporter includes a platform and at least one ground-contacting element, each ground contacting element rotatably attached to the platform about a rotation axis and wherein the pivot axis is coincident with the rotation axis; wherein coupling the carrier includes attaching the carrier such that the carrier rides behind the transporter; wherein the transporter includes at least two laterally disposed ground contacting elements and coupling the carrier includes attaching the carrier such that at least one pivot is disposed between the two ground contacting elements. Kurschat does not disclose sensing a tilt of the transporter and maintaining the transporter in a dynamically stable position based on at least in part on the tilt of the transporter. Malick discloses a transporter that maintains a dynamically stable position by applying a torque to the ground-contacting element based at least in part of the tilt of the transporter. At the time of the invention, it would have

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been obvious to a person of ordinary skill in this art to substitute the transporter disclosed in Malick for the transporter disclosed in Kurschat. The motivation for doing so would have been to provide a vehicle with rapid acceleration and braking and high maneuverability to provide a sporting ride (See column 1, lines 63-66).

Regarding Claim 1, the combination of Kurschat and Malick would inherently disclose a method for governing motion of a combination of a dynamically balanced transporter and a carrier, the method comprising coupling the carrier to the dynamically balanced transporter with a pivot (Kurschat, See Fig. 1); tilting the transporter in a direction of desired motion; and governing motion of the combination of transporter and carrier in response to the tilt of the transporter.

Regarding Claim 2, Kurschat discloses wherein the carrier is a second transporter (the trailer in Kurschat is used to transport a person).

Regarding claim 7, Kurschat does not disclose wherein the coupling of the carrier includes attaching the carrier such that the carrier rides in front of the transporter. The rearrangement of the pivot to allow the carrier to placed in front the transporter as opposed to be trailing the transporter would merely by an obvious matter of design choice because shifting of the position of the carrier would not materially alter the operation of the transporter, See *In re Japikse*, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950).

3. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurschat (US Patent 5,604,209) and Malick (US Patent 3,399,742 as applied to claim 1 above, and further in view of Simpson (US Patent 3,724,874). Kurschat and Malick disclose a method of governing motion of a combination of a transporter and trailer as set forth above in paragraph 3,

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but does disclose coupling an additional carrier to the carrier. Simpson discloses coupling additional carriers onto carriers. At the time of the invention, it would have been obvious to a person of ordinary skill in this art to couple additional carriers to previous carriers in the combination of Kurschat and Malick in view of the teaching of Simpson. The motivation for doing so would have been to provide more carriers so that more items or passengers could be transported.

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Response to Arguments

4. Applicant's arguments filed February 14, 2005 have been fully considered but they are not persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., overcoming the effects of such extraneous nonlinear torques that can be created by simple coupling of a trailer to a dynamically balanced transporter such as described in the Specification) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). As currently claimed, Examiner maintains that the combination of Malick and Kurschat meets the limitations of current claim 1. Providing a trailer behind a vehicle is certainly old and very well known in the vehicle art. A person of ordinary skill in this art would have the requisite skill to attach a trailer behind Malick's dynamically balanced transporter in a manner that would not inhibit the operation of the transporter. The motivation for attaching a trailer is to enable the user to carry additional items while operating the transporter.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Allen Shriver whose telephone number is (703) 308-1224. The examiner can normally be reached on Mon-Thurs 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris P. Ellis can be reached on (703) 305-0168. Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-1113.

As of May 1, 2003, any response to this action should be mailed to:

Mail Stop _____ Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Or faxed to: (703) 305-3597 or (703) 305-7687 (for formal communications intended for entry. (703) 746-3852 (for informal communications directly to the Examiner).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wednesday, March 09, 2005

llen Shriver

Examiner Art Unit 3618